



Bureau of Air Quality Conditional Major Operating Permit

**Pinewood Site Custodial Trust
8430 Camp Mac Boykin Road
Pinewood, South Carolina 29125
Sumter County**

Pursuant to the provisions of the Pollution Control Act, Sections 48-1-50(5) and 48-1-110(a), the 1976 Code of Laws of South Carolina, as amended, and South Carolina Regulation 61-62, Air Pollution Control Regulations and Standards, the Bureau of Air Quality authorizes the operation of this facility and the equipment specified herein in accordance with valid construction permits, and the plans, specifications, and other information submitted in the Conditional Major Operating Permit request received on May 30, 2017, as amended. All official correspondence, plans, permit applications and written statements are an integral part of the permit. Any false information or misrepresentation in the application for a construction or operating permit may be grounds for permit revocation.

The operation of this facility is subject to and conditioned upon the terms, limitations, standards, and schedules contained herein or as specified by this permit and its accompanying attachments.

Permit Number: CM-2140-0017

Issue Date: DRAFT
Expiration Date: DRAFT

Effective Date: DRAFT
Renewal Due Date: DRAFT

**Steve McCaslin, P. E., Director
Engineering Services Division
Bureau of Air Quality**

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RECORD OF REVISIONS	
Date	Description of Changes

DRAFT

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A. EMISSION UNIT DESCRIPTION

Emission Unit ID	Emission Unit Description
01	Evaporator
02	Tanks
03	Filter Press
04	Dryers

B EQUIPMENT AND CONTROL DEVICE(S)

B.1 EQUIPMENT FOR EMISSION UNIT 01 - EVAPORATOR

Equipment ID	Equipment Description	Installation/ Modification Date	Control Device ID	Emission Point ID
E-800	4.54 million Btu/hr Propane fired Evaporator (used to reduce the volume of leachate by evaporation)	2013	None	LTS

B.2 EQUIPMENT FOR EMISSION UNIT 02 - TANKS

Equipment ID	Equipment Description	Installation/ Modification Date	Control Device ID	Emission Point ID
T-200	LTS1 Mix Tank (used to adjust pH of the leachate)	2013	None	LTS
T-210	LTS1 Sludge Tank	2013	None	LTS
T-600	LTS1 Filtrate Tank	2013	None	LTS
T-700	LTS1 Holding Tank	2013	None	LTS
T-900	LTS1 Slurry Holding Tank	2013	None	LTS

B.3 EQUIPMENT FOR EMISSION UNIT 03 - FILTER PRESS

Equipment ID	Equipment Description	Installation/ Modification Date	Control Device ID	Emission Point ID
FLT-600	Plate and Frame Filter Press	2013	None	LTS

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B.4 EQUIPMENT FOR EMISSION UNIT 04 - DRYERS

Equipment ID	Equipment Description	Installation/Modification Date	Control Device ID	Emission Point ID
D-601	Electrically Heated Sludge Dryer	2013	None	LTS
D-901	Electrically Heated Slurry Dryer	2013	None	LTS

C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
C.1	<p>Emission Unit ID: All Equipment ID: All</p> <p>(S.C. Regulation 61-62.1, Section II.J.1.g) A copy of the Department issued construction and/or operating permit must be kept readily available at the facility at all times. The owner or operator shall maintain such operational records; make reports; install, use, and maintain monitoring equipment or methods; sample and analyze emissions or discharges in accordance with prescribed methods at locations, intervals, and procedures as the Department shall prescribe; and provide such other information as the Department reasonably may require. All records required to demonstrate compliance with the limits established under this permit shall be maintained on site for a period of at least 5 years from the date the record was generated and shall be made available to a Department representative upon request.</p>
C.2	<p>Emission Unit ID: 01 Equipment ID: E-800</p> <p>(S.C. Regulation 61-62.5, Standard No. 1, Section I) The fuel burning source shall not discharge into the ambient air smoke which exceeds opacity of 20%. The owner/operator shall, to the extent practicable, maintain and operate any source including associated air pollution control equipment in a manner consistent with good air pollution control practices for minimizing emissions.</p>
C.3	<p>Emission Unit ID: 01 Equipment ID: E-800</p> <p>(S.C. Regulation 61-62.5, Standard No. 1, Section II) The maximum allowable discharge of particulate matter resulting from this source is 0.6 pounds per million Btu input.</p>
C.4	<p>Emission Unit ID: 01 Equipment ID: E-800</p> <p>(S.C. Regulation 61-62.5, Standard No. 1, Section III) The maximum allowable discharge of sulfur dioxide (SO₂) resulting from this source is 2.3 pounds per million Btu input.</p>

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions				
C.5	<p>Emission Unit ID: 01 Equipment ID: E-800</p> <p>This source is permitted to burn only propane as fuel. The use of any other substances as fuel is prohibited without prior written approval from the Department.</p>				
C.6	<p>Emission Unit ID: 02, 03, 04 Equipment ID: T-200, T-210, T-600, T-700, T-900, FLT-600, D-601, D-901</p> <p>(S.C. Regulation 61-62.5, Standard No. 4, Section IX) Where construction or modification began after December 31, 1985, emissions from these sources (including fugitive emissions) shall not exhibit an opacity greater than 20% each.</p>				
C.7	<p>Emission Unit ID: 02, 03, 04 Equipment ID: T-200, T-210, T-600, T-700, T-900, FLT-600, D-601, D901</p> <p>(S.C. Regulation 61-62.5, Standard No. 4, Section VIII) Particulate matter emissions from a process shall be limited to the rate specified by use of the following equations:</p> <p>1) when process weight rates are less than or equal to 30 tons per hour: $E = (F) 4.10P^{0.67}$</p> <p>or 2) when process weight rates are greater than 30 tons per hour: $E = (F) 55.0P^{0.11} - 40$</p> <p>where E = the allowable emission rate in pounds per hour, P = process weight rate in tons per hour, and F = effect factor from Table B in S.C. Regulation 61-62.5, Standard No. 4. For the purposes of compliance with this condition, the process boundaries are defined as follows:</p> <table border="1"> <thead> <tr> <th>Process/ Equipment IDs</th><th>Max. Process Weight Rate (tons/hr)</th></tr> </thead> <tbody> <tr> <td>Leachate Treatment System (LTS)</td><td>1.68</td></tr> </tbody> </table>	Process/ Equipment IDs	Max. Process Weight Rate (tons/hr)	Leachate Treatment System (LTS)	1.68
Process/ Equipment IDs	Max. Process Weight Rate (tons/hr)				
Leachate Treatment System (LTS)	1.68				
C.8	<p>Emission Unit ID: Facility Wide Equipment ID: All</p> <p>(S.C. Regulation 61-62.1, Section II.E; S.C. Regulation 61-62.1, Section II.G.) This facility is a potential major source for hazardous air pollutants (HAP) emissions. The facility has agreed to federally enforceable operating limitations to limit its potential to emit to less than 10 tons per year for any single HAP emission and 25 tons per year for any combination of HAP emissions. The owner/operator shall calculate facility wide emissions in tons per year of all volatile organic compounds (VOC) and hazardous air pollutants (HAP).</p> <p>For the Central Leachate Tank Farm (Central LTF) and Auxiliary Leachate Tank Farm (Auxiliary LTF)</p>				

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	<p>emissions shall be calculated using the actual leachate throughput (Condition C.9) and the actual, valid non-qualified detected concentrations from the quarterly leachate analytical reports for the target analytes listed in Attachment - Target Analytes. Testing of the leachate for the analytes shall be conducted on at least a quarterly basis. The emission estimate shall be prepared using the information from the last four quarters to calculate emissions and a twelve month rolling sum shall be calculated for total VOC and both single and total HAP emissions.</p> <p>For the leachate treatment system (LTS1), an emission factor shall be calculated using the concentration of the target analytes listed in Attachment – Target Analytes in the leachate prior to processing in evaporator (E-800), in the slurry liquid within the mobile liquid slurry tanker truck, and in the solid residues removed from the slurry dryer (D-901). If no slurry liquid is sent off-site for disposal, that portion is excluded from the emission factor derivation for that quarter. If no slurry liquid is processed through the slurry dryer, that portion is excluded from the emission factor derivation for that quarter. A new emission factor shall be calculated on at least a quarterly basis. This emission factor shall be used with the volume of leachate processed in the evaporator (Condition C.9) to calculate the emissions and a twelve month rolling sum shall be calculated for total VOC and both single and total HAP emissions.</p> <p>The permittee shall also include emissions from the sludge dryer in the above mentioned emission calculations either by adding in the potential emissions of the equipment, calculating actual emissions from the equipment or by another Bureau approved method.</p> <p>For other sources at the facility, potential emissions can be used if desired in the facility wide calculation of VOC and HAP emissions.</p> <p>For the primary sumps located in Section I, II and III, emissions may either be calculated using actual leachate throughput and the actual, valid non-qualified detected concentrations of target analytes or the calculated potential emissions may be used. The owner/operator shall submit a Primary Sump Monitoring Plan to be followed only in the event that the owner/operator chooses to calculate emissions from the primary sumps using actual leachate volume produced by the sumps. This plan shall include the testing frequency (at least annually) and protocols, the list of target analytes, process to update air dispersion modeling or potential emission estimates if necessary based on test data. This plan and subsequent updates or revisions shall be submitted to the Bureau of Air Quality, Engineering Services Division for approval within 30 days of the LTS1 achieving operational status.</p> <p>Facility wide emissions shall be calculated on a semiannual basis with a rolling 12 month rolling sum for total VOC and both single and total HAP emissions. Emissions from malfunctions are required to be quantified and included in the calculations. The twelve month rolling sum shall be less than 10 tons per year for any single HAP emission and 25 tons per year for any combination of HAP emissions. All chemical analysis of leachate, slurry liquid, and residue required by this permit shall be conducted per EPA SW846 analytical methods or other Bureau approved methods. Any changes to the above</p>

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	<p>monitoring must be approved by the Bureau of Air Quality. Changes or additions may be administratively incorporated into Attachment – Target Analytes of this permit as necessary. During each operating permit renewal, the owner/operator shall review the target analytes list and advise the Bureau of Air if it determines that there are any HAPs or TAPs that are not already on the list for which it has identified appropriate analytical methods that would make it feasible to add one or more of those HAPs or TAPs to the target analytes list. This information shall be submitted as part of the operating permit renewal request to the Bureau of Air Quality. If any analyte that has not previously been reported with a valid, non-qualified concentration in the leachate is reported in one of the analyses with a valid, non-qualified concentration, then the Standard 8 de minimis analysis, appropriate facility wide emission calculations, and air dispersion modeling (if required) shall be updated accordingly and the updated information shall be submitted to the Bureau of Air Quality within 60 days of finding an analyte that has previously been determined non-detect.</p> <p>An algorithm, including example calculations and emission factors, explaining the method used to determine emission rates shall be included in the initial report. Subsequent submittals of the algorithm and example calculations are unnecessary, unless the method of calculation is found to be unacceptable by the Bureau or if the facility changes the method of calculating emissions and/or changes emission factors.</p> <p>Reports of total facility VOC and single and total HAP emissions in tons per year shall be submitted on an annual basis.</p>
C.9	<p>Emission Unit ID: Facility Wide Equipment ID: All</p> <p>The owner/operator shall operate and maintain devices and undertake work practices as appropriate to monitor the volume of leachate entering the Central LTF, the Auxiliary LTF, the volume of leachate that is processed by evaporator E-800 in LTS1, the volume of slurry liquid sent off-site, and the quantity of residue generated by the slurry dryer in LTS1</p> <p>The owner/operator will measure and record the volume of leachate entering the Central LTF and the Auxiliary LTF from all sources. Volumes may be measured using flow meters, weigh scales, tank capacities and liquid levels, and stroke count from positive displacement pumps, as allowed under the Site's Resource Conservation and Recovery Act (RCRA) Part B permit. The total volumes entering the Central LTF and Auxiliary LTF during each calendar month and each quarter shall be calculated and recorded. Owner/operator shall keep records of all such measurements, including source and destination of the leachate being transferred, the method used to measure the quantity transferred, and the date of the transfer.</p> <p>The owner/operator will monitor the volume of the leachate processed by evaporator E-800. The facility shall continue to calibrate, operate, and maintain an appropriate monitoring device to determine this volume on a continuous basis. The facility shall submit to the Bureau of Air Quality</p>

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C. LIMITATIONS, MONITORING AND REPORTING CONDITIONS

Condition Number	Conditions
	<p>information on the monitoring equipment prior to the startup of the LTS1.</p> <p>The owner/operator will monitor and record the volume of slurry liquid sent from the slurry holding tank (T-900) to a mobile liquid slurry tanker truck. This information shall be kept in a log on site.</p> <p>The owner/operator shall determine the amount of solid wastes that are generated by the slurry dryer D-901 by weighing the solids prior to the waste being shipped off site. This information shall be kept in a log on site.</p> <p>Any changes to the above monitoring must be approved by the Bureau of Air Quality. Changes or additions may be administratively incorporated into this permit as necessary.</p>

D. NESHAP PERIODIC REPORTING SCHEDULE SUMMARY

NESHAP Part	NESHAP Subpart	Compliance Monitoring Report Submittal Frequency	Reporting Period	Report Due Date
63	ZZZZ (Emergency Generators see note 3 and 4)	N/A	N/A	N/A

1. This table summarizes only the periodic compliance reporting schedule. Additional reports may be required. See specific NESHAP Subpart for additional reporting requirements and associated schedule.
2. This reporting schedule does not supersede any other reporting requirements including but not limited to 40 CFR Part 60, 40 CFR Part 61, 40 CFR Part 63, and/or Title V. The MACT reporting schedule may be adjusted to coincide with the Title V reporting schedule with prior approval from the Department in accordance with 40 CFR 63.10(a)(5). This request may be made 1 year after the compliance date for the associated MACT standard.
3. Facilities with emergency generators are not required to submit reports. Only facilities with non-emergency engines are required to submit semiannual reports.
4. Facilities with emergency engines shall comply with the operations limits specified in 40 CFR 63.6640(f).

E. NESHAP - CONDITIONS

Condition Number	Conditions
E.1	All NESHAP notifications and reports shall be sent to the Manager of the Air Toxics Section, South Carolina Department of Health and Environmental Control - Bureau of Air Quality.
E.2	All NESHAP notifications and the cover letter to periodic reports shall be sent to the United States

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E. NESHAP – CONDITIONS

Condition Number	Conditions
	Environmental Protection Agency (US EPA) at the following address or electronically as required by the specific subpart: US EPA, Region 4 Air, Pesticides and Toxics Management Division 61 Forsyth Street SW Atlanta, GA 30303
E.3	Emergency power generators less than or equal to 150 kilowatt (kW) rated capacity or greater than 150 kW rated capacity designated for emergency use only and operated a total of 500 hours per year or less for testing and maintenance with a method to record the actual hours of use such as an hour meter have been determined to be exempt from construction permitting requirements in accordance with South Carolina Regulation 61-62.1. These sources shall still comply with the requirements of all applicable regulations including but not limited to the following: New Source Performance Standards (NSPS) 40 CFR 60 Subpart A (General Provisions); NSPS 40 CFR 60 Subpart IIII (Stationary Compression Ignition Internal Combustion Engines); NSPS 40 CFR 60 Subpart JJJJ (Stationary Spark Ignition Internal Combustion Engines); National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR 63 Subpart A (General Provisions); and NESHAP 40 CFR 63 Subpart ZZZZ (Stationary Reciprocating Internal Combustion Engines).

F. PERMIT FLEXIBILITY

Condition Number	Conditions
F.1	The facility may install exempt sources as allowed in S.C. Regulation 61-62.1, Section II.B, without revising or reopening the operating permit. The addition of these sources is allowed without a construction permit except when the activity triggers a new operating permit status (i.e. does not potentially subject the facility to the Title V operating permit program) and/or any activity triggers major source or synthetic minor permitting requirements. A list of exempt sources must be maintained on site, along with any necessary documentation to support the determination that the source is exempt, and shall be made available to a Department representative upon request. The list and necessary documentation shall be submitted with the next renewal application. Emissions from these sources shall be reflected in the facility-wide emissions tabulation in any subsequent construction permit application.

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G. AMBIENT AIR STANDARDS REQUIREMENTS

Condition Number	Conditions
G.1	<p>Air dispersion modeling (or other method) has demonstrated that this facility's operation will not interfere with the attainment and maintenance of any state or federal ambient air standard. Any changes in the parameters used in this demonstration may require a review by the facility to determine continuing compliance with these standards. These potential changes include any decrease in stack height, decrease in stack velocity, increase in stack diameter, decrease in stack exit temperature, increase in building height or building additions, increase in emission rates, decrease in distance between stack and property line, changes in vertical stack orientation, and installation of a rain cap that impedes vertical flow. Parameters that are not required in the determination will not invalidate the demonstration if they are modified. The emission rates used in the determination are listed in Attachment - Emission Rates for Ambient Air Standards of this permit. Higher emission rates may be administratively incorporated into Attachment - Emission Rates for Ambient Air Standards of this permit provided a demonstration using these higher emission rates shows the attainment and maintenance of any state or federal ambient air quality standard or with any other applicable requirement. Variations from the input parameters in the demonstration shall not constitute a violation unless the maximum allowable ambient concentrations identified in the standard are exceeded.</p> <p>The owner/operator shall maintain this facility at or below the emission rates as listed in Attachment - Emission Rates for Ambient Air Standards, not to exceed the pollutant limitations of this permit. Should the facility wish to increase the emission rates listed in Attachment - Emission Rates for Ambient Air Standards, not to exceed the pollutant limitations in the body of this permit, it may do so by the administrative process specified above. This is a State Only enforceable requirement.</p>

H. PERIODIC REPORTING SCHEDULE

Compliance Monitoring Report Submittal Frequency	Reporting Period (Begins on the effective date of the permit)	Report Due Date
Annual	January-December April-March July-June October-September	March 30 June 30 September 30 December 30
Note: This reporting schedule does not supersede any federal reporting requirements including but not limited to 40 CFR Part 60, 40 CFR Part 61, and 40 CFR Part 63. All federal reports must meet the reporting time frames specified in the federal standard unless the Department or EPA approves a change.		

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I. REPORTING CONDITIONS

Condition Number	Conditions
I.1	Reporting required in this permit, shall be submitted in a timely manner as directed in the Periodic Reporting Schedule of this permit.
I.2	All reports and notifications required under this permit shall be submitted to the person indicated in the specific condition at the following address: 2600 Bull Street Columbia, SC 29201 The contact information for the local Environmental Affairs Regional office can be found at: http://www.scdhec.gov
I.3	Unless elsewhere specified within this permit, all reports required under this permit shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality.
I.4	(S.C. Regulation 61-62.1, Section II.J) For sources not required to have continuous emissions monitors, any malfunction of air pollution control equipment or system, process upset or other equipment failure which results in discharges of air contaminants lasting for one hour or more and which are greater than those discharges described for normal operation in the permit application shall be reported to the Department's local Environmental Affairs Regional office within 24 hours after the beginning of the occurrence. The owner/operator shall also submit a written report within 30 days of the occurrence. This report shall be submitted to the Manager of the Technical Management Section, Bureau of Air Quality and shall include, at a minimum, the following: <ol style="list-style-type: none">1. The identity of the stack and/or emission point where the excess emissions occurred;2. The magnitude of excess emissions expressed in the units of the applicable emission limitation and the operating data and calculations used in determining the excess emissions;3. The time and duration of excess emissions;4. The identity of the equipment causing the excess emissions;5. The nature and cause of such excess emissions;6. The steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of such malfunction;7. The steps taken to limit the excess emissions; and,8. Documentation that the air pollution control equipment, process equipment, or processes were at all times maintained and operated, to the maximum extent practicable, in a manner consistent with good practice for minimizing emissions.

J. GENERAL CONDITIONS

Condition Number	Conditions
J.1	The owner or operator shall comply with S.C. Regulation 61-62.2 "Prohibition of Open Burning."
J.2	The owner or operator shall comply with S.C. Regulation 61-62.3 "Air Pollution Episodes."
J.3	The owner or operator shall comply with S.C. Regulation 61-62.4 "Hazardous Air Pollution"

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J. GENERAL CONDITIONS

Condition Number	Conditions
	Conditions."
J.4	This permit only covers emission units and control equipment while physically present at the indicated facility. Unless the permit specifically provides for the equipment relocation, this permit is void for an item of equipment on the day it is removed from the permitted facility, notwithstanding the expiration date specified on the permit.
J.5	The permittee shall pay permit fees to the Department in accordance with the requirements of S.C. Regulation 61-30, Environmental Protection Fees.
J.6	<p>In the event of an emergency, as defined in S.C. Regulation 61-62.1, Section II.L, the owner or operator may document an emergency situation through properly signed, contemporaneous operating logs, and other relevant evidence that verify:</p> <ol style="list-style-type: none">1. An emergency occurred, and the owner or operator can identify the cause(s) of the emergency;2. The permitted source was at the time the emergency occurred being properly operated;3. During the period of the emergency, the owner or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and4. The owner or operator gave a verbal notification of the emergency to the Department within 24 hours of the time when emission limitations were exceeded, followed by a written report within 30 days. The written report shall include, at a minimum, the information required by S.C. Regulation 61-62.1, Section II.J.1.c.i through viii. The written report shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. <p>This provision is in addition to any emergency or upset provision contained in any applicable requirement.</p>
J.7	<p>(S.C. Regulation 61-62.1, Section II.O) Upon presentation of credentials and other documents as may be required by law, the owner or operator shall allow the Department or an authorized representative to perform the following:</p> <ol style="list-style-type: none">1. Enter the facility where emissions-related activity is conducted, or where records must be kept under the conditions of the permit.2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit.3. Inspect any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.4. As authorized by the Federal Clean Air Act and/or the S.C. Pollution Control Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

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K. PERMIT RENEWAL, MODIFICATION, EXPIRATION AND TRANSFER OF OWNERSHIP

Condition Number	Conditions
K.1	(S.C. Regulation 61-62.1, Section II.H) The owner or operator shall submit an operating permit renewal request to the Department within 90 days prior to the operating permit expiration date. The operating permit renewal requests shall include a description of any changes at the facility that have occurred since issuance of the last operating permit that may affect the operating permit or operating permit review. In general, the description shall include any addition, alteration or removal of sources, including sources exempt from construction permit requirements; addition, alteration or removal of emission limitations; any changes to monitoring, recordkeeping, or reporting requirements; and any changes or additions to special permit conditions.
K.2	Submission of a request for renewal meeting the requirements in S.C. Regulation 61-62.1, Section II.H, shall allow the owner or operator to continue operating pursuant to the most recent operating permit, until such time as the Department has taken final action on the request for renewal.
K.3	This permit may be reopened by the Department for cause or to include any new standard or regulation which becomes applicable to a source during the life of the permit.
K.4	This permit may be modified by the Department for cause, to include any applicable requirement or to add or alter a permit's expiration date.
K.5	(S.C. Regulation 61-62.1, Section II.M) Within 30 days of the transfer of ownership/operation of a facility, the current permit holder and prospective new owner or operator shall submit to the Director of Engineering Services a written request for transfer of the source operating or construction permits. The written request for transfer of the source operating or construction permit shall include any changes pertaining to the facility name and mailing address; the name, mailing address, and telephone number of the owner or operator for the facility; and any proposed changes to the permitted activities of the source. Transfer of the operating or construction permits will be effective upon written approval by the Department.

ATTACHMENT - Emission Rates for Ambient Air Standards

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The emission rates listed herein are not considered enforceable limitations but are used to evaluate ambient air quality impact. Until the Department makes a determination that a facility is causing or contributing to an exceedance of a state or federal ambient air quality standard, increases to these emission rates are not in themselves considered violations of these ambient air quality standards (see Ambient Air Standards Requirements).

AMBIENT AIR QUALITY STANDARDS – STANDARD NO. 2						
Emission Point ID	Emission Rates (lbs/hr)					
	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	Lead
LTS (all components)	0.03	0.03	8.93E-04	0.65	0.37	2.02E-3
EG01 200 kW - emergency generator	0.59	0.59	0.55	8.31	1.79	--

TOXIC AIR POLLUTANTS – STANDARD NO. 8				
Emission Point ID	Emission Rates (lbs/hr)			
	Acrolein	Arsenic	bis(2-Ethylhexyl)phthalate	Cadmium
	107-02-8	7440-38-2	117-81-7	7440-43-9
AE1	1.52E-04	--	--	--
AE2	1.52E-04	--	--	--
CTF1	7.86E-03	--	3.238E-06	--
LTSA	2.27E-01	1.205E-01	5.474E-02	1.387E-02
LTSB	--	1.674E-02	7.603E-03	1.926E-03
LTSC	2.27E-01	1.205E-01	5.474E-02	1.387E-02
LTSD	--	1.674E-02	7.603E-03	1.926E-03
S1	1.28E-06	--	--	--
S2	1.55E-06	--	--	--
S3	9.66E-07	--	--	--

TOXIC AIR POLLUTANTS – STANDARD NO. 8				
Emission Point ID	Emission Rates (lbs/hr)			
	Carbon disulfide	Chlordane	Chloroform	Chromium
	75-15-0	57-74-9	67-66-3	7440-47-3
AE1	7.754E-06	--	1.611E-06	--
AE2	7.754E-06	--	1.611E-06	--
CTF1	2.460E-02	5.937E-05	3.476E-02	--
LTSA	6.376E-02	9.614E-03	1.459E-01	7.778E-03

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TOXIC AIR POLLUTANTS - STANDARD NO. 8				
Emission Point ID	Emission Rates (lbs/hr)			
	Carbon disulfide	Chlordane	Chloroform	Chromium
	75-15-0	57-74-9	67-66-3	7440-47-3
LTSB	8.855E-03	1.335E-03	2.026E-02	1.080E-03
LTSC	6.376E-02	9.614E-03	1.459E-01	7.778E-03
LTSD	8.855E-03	1.335E-03	2.026E-02	1.080E-03
S1	5.257E-03	1.371E-06	1.128E-02	--
S2	8.800E-05	2.100E-06	8.283E-03	--
S3	3.149E-04	2.241E-07	1.314E-07	--

TOXIC AIR POLLUTANTS - STANDARD NO. 8				
Emission Point ID	Emission Rates (lbs/hr)			
	Cobalt	m,p-Cresols	1,2-Dibromo-3-chloropropane	1,2-Dichloroethane
	7440-48-4	108-39-4	96-12-8	107-06-2
AE1	--	--	3.008E-06	1.548E-06
AE2	--	--	3.008E-06	1.548E-06
CTF1	--	8.016E-05	1.262E-04	1.159E-02
LTSA	1.167E-02	5.875E-02	6.443E-04	8.846E-02
LTSB	1.620E-03	8.160E-03	8.948E-05	1.229E-02
LTSC	1.167E-02	5.875E-02	6.443E-04	8.846E-02
LTSD	1.620E-03	8.160E-03	8.948E-05	1.229E-02
S1	--	--	5.206E-05	2.641E-03
S2	--	--	3.933E-08	1.967E-03
S3	--	--	3.905E-08	1.137E-06

TOXIC AIR POLLUTANTS - STANDARD NO. 8				
Emission Point ID	Emission Rates (lbs/hr)			
	1,4-Dioxane (1,4-Diethyleneoxide)	Ethylene glycol	Formaldehyde	Heptachlor
	123-91-1	107-21-1	50-00-0	76-44-8
CTF1	0.000399	1.325E-04	4.81E-05	4.611E-04
LTSA	2.150	2.210	5.67E-01	3.128E-03
LTSB	--	3.069E-01	--	4.344E-04

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TOXIC AIR POLLUTANTS - STANDARD NO. 8				
Emission Point ID	Emission Rates (lbs/hr)			
	1,4-Dioxane (1,4-Diethyleneoxide)	Ethylene glycol	Formaldehyde	Heptachlor
	123-91-1	107-21-1	50-00-0	76-44-8
LTSC	2.150	2.210	5.67E-01	3.128E-03
LTSD	--	3.069E-01	--	4.344E-04
S1	0.0028	--	--	1.638E-05
S2	0.000336	--	--	2.483E-05
S3	0.0000162	5.397E-08	--	1.708E-07

TOXIC AIR POLLUTANTS - STANDARD NO. 8				
Emission Point ID	Emission Rates (lbs/hr)			
	Hexachlorocyclopentadiene	Hexane	Hydrazine	Methanol
	77-47-4	110-54-3	302-01-2	67-56-1
CTF1	1.238E-03	3.937E-01	--	3.468E-03
LTSA	3.014E-03	1.001	4.406E-03	2.717
LTSC	4.187E-04	1.391E-01	6.120E-04	3.774E-01
LTSD	3.014E-03	1.001	4.406E-03	2.717
LTSD	4.187E-04	1.391E-01	6.120E-04	3.774E-01
S1	--	--	--	5.194E-04
S2	--	--	--	6.133E-04
S3	--	--	--	2.857E-05

TOXIC AIR POLLUTANTS - STANDARD NO. 8				
Emission Point ID	Emission Rates (lbs/hr)			
	4,4'-Methylenebis(2-chloroaniline)	α-Naphthylamine	Nickel	Pentachlorophenol
	101-14-4	134-32-7	7440-02-0	87-86-5
CTF1	2.563E-04	2.97E-07	--	6.325E-08
LTSA	8.345E-04	1.06E-04	3.221E-02	7.344E-03
LTSC	1.159E-04	3.00E-05	4.474E-03	1.020E-03
LTSD	8.345E-04	1.06E-04	3.221E-02	7.344E-03
LTSD	1.159E-04	3.00E-05	4.474E-03	1.020E-03

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TOXIC AIR POLLUTANTS – STANDARD NO. 8				
Emission Point ID	Emission Rates (lbs/hr)			
	Phenol	Phosphorus	Selenium	Toxaphene
	108-95-2	7723-14-0	7782-49-2	8001-35-2
CTF1	1.103E-04	--	--	3.286E-05
LTSA	1.192E-01	2.470E-02	2.654E-03	1.302E-03
LTSB	1.655E-02	3.431E-03	3.686E-04	1.808E-04
LTSC	1.192E-01	2.470E-02	2.654E-03	1.302E-03
LTSD	1.655E-02	3.431E-03	3.686E-04	1.808E-04
S1	--	--	--	9.981E-07
S2	--	--	--	2.533E-08
S3	--	--	--	6.006E-08

TOXIC AIR POLLUTANTS – STANDARD NO. 8		
POLLUTANT	CAS NUMBER	Facility Wide Emission Rates (lbs/day)
Acetaldehyde	75-07-0	21.600
Acetonitrile	75-05-8	21.000
Acetophenone	98-86-2	0.078
2-Acetylaminofluorene	53-96-3	0.000
Acrylonitrile	107-13-1	0.270
Allyl chloride	107-05-1	0.360
4-Aminobiphenyl	92-67-1	0.000
Aniline	62-53-3	0.600
Antimony Compounds	+	0.030
Benzene	71-43-2	1.800
Benzidine	92-87-5	0.005
p-Benzoquinone	106-51-4	0.024
Benzyl chloride	100-44-7	0.300
Beryllium	7440-41-7	0.005
Biphenyl	92-52-4	0.072
Bromoform	75-25-2	0.310
Caprolactam	105-60-2	6.000
Carbon Tetrachloride	56-23-5	1.800
Chloroprene (2-Chloro-1,3-butadiene)	126-99-8	2.100
Chloroacetic Acid	79-11-8	10.800

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TOXIC AIR POLLUTANTS - STANDARD NO. 8		
POLLUTANT	CAS NUMBER	Facility Wide Emission Rates (lbs/day)
Chlorobenzene	108-90-7	20.700
Chlorobenzilate	510-15-6	0.000
o-Cresol	95-48-7	1.326
Cumene (Isopropylbenzene)	98-82-8	0.108
Cyanide, Total	57-12-5	1.500
2,4-D, salts and esters	94-75-7	0.600
4,4'-DDE	72-55-9	0.003
Dibenzofuran	132-64-9	0.014
Dibutylphthalate	84-74-2	0.300
3,3'-Dichlorobenzidine	91-94-1	0.002
1,3-Dichloropropylene(total)	542-75-6	0.240
Diethylphthalate	84-66-2	0.300
p-Dimethylaminoazobenzene	60-11-7	1.500
3,3'-Dimethylbenzidine	119-93-7	0.000
Dimethylphthalate	131-11-3	0.300
4,6-Dinitro-o-cresol and salts (Methyl-4,6-dinitrophenol)	534-52-1	0.024
m-Dinitrobenzene	99-65-0	0.120
2,4-Dinitrophenol	51-28-5	0.349
2,4-Dinitrotoluene	121-14-2	0.018
Diocetyl Phthalate	117-84-0	0.600
1,2-Diphenylhydrazine	122-66-7	0.008
Ethyl Benzene	100-41-4	52.200
Ethyl Chloride (Chloroethane)	75-00-3	316.800
Ethylene Dibromide (1,2-Dibromoethane)	106-93-4	9.240
Ethylidene Dichloride (1,1-Dichloroethane)	75-34-3	24.300
Glycol Ethers (triethylene glycol)	112-27-6	7.525
Hexachlorobenzene	118-74-1	0.032
Hexachlorobutadiene	87-68-3	0.014
Hexachloroethane	67-72-1	0.582
Isophorone	78-59-1	3.000
Kepone (Chlordecone)	143-50-0	0.000
Lindane (gamma-BHC)	58-89-9	0.030

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TOXIC AIR POLLUTANTS – STANDARD NO. 8		
POLLUTANT	CAS NUMBER	Facility Wide Emission Rates (lbs/day)
Mercury	7439-97-6	0.003
Methoxychlor	72-43-5	0.600
Methyl Bromide (Bromomethane)	74-83-9	1.200
Methyl Chloride (Chloromethane)	74-87-3	6.180
Methyl Ethyl Ketone (2- Butanone)	78-93-3	177.000
Methyl Iodide (Iodomethane)	74-88-4	0.696
Methyl Methacrylate	80-62-6	123.000
Methyl Isobutyl Ketone (4- Methyl-2-pentanone)	108-10-1	24.600
Methyl-t-butyl Ether (tert-Butyl methyl ether)	1634-04-4	0.013
Methylene Chloride	75-09-2	105.000
Mirex	2385-85-5	54.000
Naphthalene	91-20-3	15.000
b-Naphthylamine	91-59-8	0.000
p-Nitroaniline	100-01-6	0.180
Nitrobenzene	98-95-3	0.300
Nitroglycerin	55-63-0	0.060
p-Nitrophenol	100-02-7	0.000
2-Nitropropane	79-46-9	2.184
n-Nitrosomethylamine	62-75-9	0.000
n-Nitrosomorpholine	59-89-2	60.000
p-Nitrotoluene	99-99-0	0.066
Parathion	56-38-2	0.006
Pentachloronitrobenzene	82-68-8	0.000
Phenanthrene	85-01-8	1.920
p-Phenylenediamine	106-50-3	0.012
Polychlorinated Biphenyls (PCBs)	+	0.030
Polycyclic Organic Matter (POM)	+	1.920
Propylene Dichloride (1,2- Dichloropropane)	78-87-5	21.000
Styrene	100-42-5	63.900

ATTACHMENT - Emission Rates for Ambient Air Standards

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TOXIC AIR POLLUTANTS - STANDARD NO. 8		
POLLUTANT	CAS NUMBER	Facility Wide Emission Rates (lbs/day)
1,1,2,2-Tetrachloroethane	79-34-5	0.420
Tetrachloroethylene	127-18-4	40.200
Toluene	108-88-3	24.000
o-Toluidine	95-53-4	0.526
1,2,4-Trichlorobenzene	120-82-1	4.800
1,1,1-Trichloroethane	71-55-6	114.600
1,1,2-Trichloroethane	79-00-5	3.276
Trichloroethylene	79-01-6	81.000
2,4,5-Trichlorophenol	95-95-4	0.001
2,4,6-Trichlorophenol	88-06-2	0.000
Vinyl Acetate	108-05-4	2.112
Vinyl Chloride	75-01-4	0.600
Vinylidene Chloride (1,1-Dichloroethylene)	75-35-4	1.188
Xylene (total)	1330-20-7	52.200
o-Xylene	95-47-6	52.200
m,p-Xylenes	--	52.200

ATTACHMENT - Target Analytes

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The chemicals listed below are those referenced as Attachment – Target Analytes in the Leachate. These chemicals are to be analyzed as required by condition and used in the emission calculations for both the Leachate Tank Farms and Leachate Treatment System.

Chemical Name	CAS No.	Chemical Name	CAS No.
Methanol	67-56-1	Chrysene	218-01-9
Methylene chloride	75-09-2	Antimony	7440-36-0
Ethylene glycol	107-21-1	1,2-Dichloropropane	78-87-5
2-Butanone	78-93-3	2-Chloronaphthalene	91-58-7
1,1,1-Trichloroethane	71-55-6	4,4'-DDE	72-55-9
Trichloroethylene	79-01-6	Vinyl acetate	108-05-4
1,4-Dioxane	123-91-1	Bromoform	75-25-2
Triethylene glycol	112-27-6	Aroclor-1221	11104-28-2
Chloroform	67-66-3	Benzo(b)fluoranthene	205-99-2
1,1-Dichloroethane	75-34-3	Acrylonitrile	107-13-1
Toluene	108-88-3	1-Naphthylamine	134-32-7
1,2-Dichloroethane	107-06-2	Hexachlorobutadiene	87-68-3
Carbon disulfide	75-15-0	2,4,5-Trichlorophenol	95-95-4
Arsenic	7440-38-2	Benzo(a)pyrene	50-32-8
Phenol	108-95-2	Benzo(k)fluoranthene	207-08-9
4-Methyl-2-pentanone	108-10-1	Chloromethane	74-87-3
Tetrachloroethylene	127-18-4	Benzo(ghi)perylene	191-24-2
m,p-Cresols	65794-96-9	Indeno(1,2,3-cd)pyrene	193-39-5
Acetonitrile	75-05-8	Methoxychlor	72-43-5
1,1,2-Trichloroethane	79-00-5	Mercury	7439-97-6
bis(2-Ethylhexyl)phthalate	117-81-7	gamma-BHC (Lindane)	58-89-9
Nickel	7440-02-0	1,3-Dichloropropylene(total)	542-75-6
Benzene	71-43-2	2,4,6-Trichlorophenol	88-06-2
1,4-Dichlorobenzene	106-46-7	2,4-Dinitrotoluene	121-14-2
Styrene	100-42-5	2-Acetylaminofluorene	53-96-3
o-Cresol	95-48-7	2-Chloro-1,3-butadiene	126-99-8
Xylenes (total)	1330-20-7	2-Methyl-4,6-dinitrophenol	534-52-1
Aniline	62-53-3	2-Naphthylamine	91-59-8
1,1-Dichloroethylene	75-35-4	2-Nitropropane	79-46-9
2,4-Dinitrophenol	51-28-5	3,3'-Dichlorobenzidine	91-94-1
Cadmium	7440-43-9	3,3'-Dimethylbenzidine	119-93-7
1,2,4-Trichlorobenzene	120-82-1	3-Methylcholanthrene	56-49-5
m,p-Xylenes		4,4'-Methylenebis(2-chloroaniline)	101-14-4
Cobalt	7440-48-4	4-Aminobiphenyl	92-67-1
Chlordane (tech.)	57-74-9	4-Nitrophenol	100-02-7
o-Xylene	95-47-6	Acenaphthylene	208-96-8

ATTACHMENT - Target Analytes

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Chemical Name	CAS No.	Chemical Name	CAS No.
Isophorone	78-59-1	Acrolein	107-02-8
Chromium	7440-47-3	Allyl chloride	107-05-1
Pentachlorophenol	87-86-5	Aroclor-1016	12674-11-2
Chlorobenzene	108-90-7	Aroclor-1232	11141-16-5
Ethylbenzene	100-41-4	Aroclor-1242	53469-21-9
Phenanthrene	85-01-8	Aroclor-1248	12672-29-6
Acetophenone	98-86-2	Aroclor-1254	11097-69-1
Diethylphthalate	84-66-2	Aroclor-1260	11096-82-5
Dimethylphthalate	131-11-3	Aroclor-Total	
1,1,2,2-Tetrachloroethane	79-34-5	Benzidine	92-87-5
Caprolactam	105-60-2	Benzyl chloride	100-44-7
bis(2-Chloroethyl) ether	111-44-4	Beryllium	7440-41-7
Naphthalene	91-20-3	Biphenyl	92-52-4
Lead	7439-92-1	Bromomethane	74-83-9
Acenaphthene	83-32-9	Chloroacetic acid	79-11-8
Chloroethane	75-00-3	Chlorobenzilate	510-15-6
2-Methylnaphthalene	91-57-6	Dibenzo(a,e)pyrene	192-65-4
Heptachlor	76-44-8	Formaldehyde	50-00-0
Hexachlorocyclopentadiene	77-47-4	Hexachloroethane	67-72-1
Fluoranthene	206-44-0	Hexane	110-54-3
Selenium	7782-49-2	Hydrazine	302-01-2
Toxaphene	8001-35-2	Iodomethane	74-88-4
Hexachlorobenzene	118-74-1	Isopropylbenzene	98-82-8
Pyrene	129-00-0	Kepone	143-50-0
Di-n-octylphthalate	117-84-0	m-Dinitrobenzene	99-65-0
Fluorene	86-73-7	Methyl methacrylate	80-62-6
Cyanide, Total	57-12-5	Mirex	2385-85-5
Vinyl chloride	75-01-4	Nitrobenzene	98-95-3
Carbon tetrachloride	56-23-5	Nitroglycerin	55-63-0
1-Methylnaphthalene	90-12-0	N-Methyl-N-nitrosomethylamine	62-75-9
1,2-Dibromoethane	106-93-4	N-Nitrosomorpholine	59-89-2
o-Toluidine	95-53-4	p-(Dimethylamino)azobenzene	60-11-7
Dibenzofuran	132-64-9	Parathion	56-38-2
1,2-Dibromo-3-chloropropane	96-12-8	p-Benzoquinone	106-51-4
Benzo(a)anthracene	56-55-3	Pentachloronitrobenzene	82-68-8
1,2-Diphenylhydrazine	122-66-7	p-Nitroaniline	100-01-6
2,4-D	94-75-7	p-Nitrotoluene	99-99-0
Anthracene	120-12-7	p-Phenylenediamine	106-50-3
Di-n-butylphthalate	84-74-2	tert-Butyl methyl ether	1634-04-4